RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _10/516,361B_

Source: _1FWO_

Date Processed by STIC: _11/27/06_

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RAW SEQUENCE LISTING   DATE: 11/27/2006
PATENT APPLICATION: **US/10/516,361B**   TIME: 09:32:35

Input Set : **F:\10516361 Supplemental CRF.txt**
Output Set: **N:\CRF4\11272006\J516361B.raw**

```
  3 <110> APPLICANT: Amirul, Islam
  4        Hazra, Papia
  6 <120> TITLE OF INVENTION: MET/FRET BASED METHOD OF TARGET NUCLEIC ACID DETECTION
WHEREBY
  7        THE DONOR/ACCEPTOR MOIETIES ARE ON COMPLEMENTARY STRANDS
  9 <130> FILE REFERENCE: 3875.033
 11 <140> CURRENT APPLICATION NUMBER: US 10/516,361B
 12 <141> CURRENT FILING DATE: 2004-11-30
 14 <150> PRIOR APPLICATION NUMBER: PCT/IN03/00204
 15 <151> PRIOR FILING DATE: 2003-05-30
 17 <150> PRIOR APPLICATION NUMBER: 487/MUM/2002 (IN)
 18 <151> PRIOR FILING DATE: 2002-05-31
 20 <160> NUMBER OF SEQ ID NOS: 31
 22 <170> SOFTWARE: PatentIn version 3.3
 24 <210> SEQ ID NO: 1
 25 <211> LENGTH: 20
 26 <212> TYPE: DNA
 27 <213> ORGANISM: Artificial
 29 <220> FEATURE:
 30 <223> OTHER INFORMATION: Forward PCR primer for amplification of a target sequence
chosen
 31        arbitrarily and made from Sequence ID Nos. 3 and 4.
 33 <400> SEQUENCE: 1
 34 acttaagtta gagcgtttgc                                              20
 37 <210> SEQ ID NO: 2
 38 <211> LENGTH: 20
 39 <212> TYPE: DNA
 40 <213> ORGANISM: Artificial
 42 <220> FEATURE:
 43 <223> OTHER INFORMATION: Forward PCR primer for amplification of a target sequence
chosen
 44        arbitrarily and made from Sequence ID Nos. 3 and 4.
 46 <400> SEQUENCE: 2
 47 tggtagtatg tgatttagtc                                              20
 50 <210> SEQ ID NO: 3
 51 <211> LENGTH: 40
 52 <212> TYPE: DNA
 53 <213> ORGANISM: Artificial
 55 <220> FEATURE:
 56 <223> OTHER INFORMATION: Arbitrarily chosen sequences. Bases 27 to 40 are
complementary to
 57        basis 31 to 44 of Sequence ID No. 4. DNA polymerase extension of
 58        annealed Sequence ID Nos. 3 and 4 results in the target sequence.
 60 <400> SEQUENCE: 3
```

61 tacacttaag ttagagcgtt tgcgcccact acgacggttg   40
64 <210> SEQ ID NO: 4
65 <211> LENGTH: 44

```
 66 <212> TYPE: DNA
 67 <213> ORGANISM: Artificial
 69 <220> FEATURE:
 70 <223> OTHER INFORMATION: Arbitrarily chosen sequences. Bases 27 to 40 are
complementary to
 71       bases 31 to 44 of Sequence ID No. 4. DNA polymerase extension of
 72       annealed Sequence ID Nos. 3 and 4 results in the target sequence.
 74 <400> SEQUENCE: 4
 75 gtttttgtgg tagtatgtga tttagtcatt caaccgtcgt agtg                44
 78 <210> SEQ ID NO: 5
 79 <211> LENGTH: 20
 80 <212> TYPE: DNA
 81 <213> ORGANISM: Artificial
 83 <220> FEATURE:
 84 <223> OTHER INFORMATION: Forward PCR primer for amplification of a target sequence
chosen
 85       arbitrarily and made from Sequence ID Nos. 3 and 4. Base t at
 86       base position 18 from 5' end has fluorophore FAM.
 88 <400> SEQUENCE: 5
 89 acttaagtta gagcgtttgc                                          20
 92 <210> SEQ ID NO: 6
 93 <211> LENGTH: 19
 94 <212> TYPE: DNA
 95 <213> ORGANISM: Leishmania donovani
 97 <400> SEQUENCE: 6
 98 acggagcggc tgaaggtgc                                           19
101 <210> SEQ ID NO: 7
102 <211> LENGTH: 27
103 <212> TYPE: DNA
104 <213> ORGANISM: Leishmania donovani
106 <400> SEQUENCE: 7
107 aggtgcatcc acttgtcctg cacctgc                                  27
110 <210> SEQ ID NO: 8
111 <211> LENGTH: 21
112 <212> TYPE: DNA
113 <213> ORGANISM: Leishmania donovani
115 <400> SEQUENCE: 8
116 aggcagatgg cgcctgcctc g                                        21
119 <210> SEQ ID NO: 9
120 <211> LENGTH: 25
121 <212> TYPE: DNA
122 <213> ORGANISM: Leishmania donovani
124 <400> SEQUENCE: 9
125 atgcggcgct gtagtacccc gcatc                                    25
128 <210> SEQ ID NO: 10
129 <211> LENGTH: 20
130 <212> TYPE: DNA
131 <213> ORGANISM: Leishmania donovani
133 <400> SEQUENCE: 10
134 ggggtactac agcgccctga                                          20
137 <210> SEQ ID NO: 11
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138 <211> LENGTH: 28
139 <212> TYPE: DNA
140 <213> ORGANISM: Leishmania donovani
142 <400> SEQUENCE: 11
143 atggccatgt cctggaagat ggccatgg                                    28
146 <210> SEQ ID NO: 12
147 <211> LENGTH: 29
148 <212> TYPE: DNA
149 <213> ORGANISM: Leishmania donovani
151 <400> SEQUENCE: 12
152 atggccatcg tcctggaaga tggccatgg                                    29
155 <210> SEQ ID NO: 13
156 <211> LENGTH: 20
157 <212> TYPE: DNA
158 <213> ORGANISM: Leishmania donovani
160 <400> SEQUENCE: 13
161 gtcctggaag atggccatgg                                              20
164 <210> SEQ ID NO: 14
165 <211> LENGTH: 20
166 <212> TYPE: DNA
167 <213> ORGANISM: Leishmania donovani
169 <400> SEQUENCE: 14
170 ctgcacacgg agcggctgaa                                              20
173 <210> SEQ ID NO: 15
174 <211> LENGTH: 20
175 <212> TYPE: DNA
176 <213> ORGANISM: Leishmania donovani
178 <400> SEQUENCE: 15
179 ggacgagctc atggcgcctg                                              20
182 <210> SEQ ID NO: 16
183 <211> LENGTH: 20
184 <212> TYPE: DNA
185 <213> ORGANISM: Leishmania donovani
187 <400> SEQUENCE: 16
188 gtcctgttca ccttccactg                                              20
191 <210> SEQ ID NO: 17
192 <211> LENGTH: 19
193 <212> TYPE: DNA
194 <213> ORGANISM: Leishmania donovani
196 <400> SEQUENCE: 17
197 gctcatggcg cctgcctcg                                               19
200 <210> SEQ ID NO: 18
201 <211> LENGTH: 19
202 <212> TYPE: DNA
203 <213> ORGANISM: Leishmania donovani
205 <400> SEQUENCE: 18
206 gcgtgtagta ccccgcatc                                               19
209 <210> SEQ ID NO: 19
210 <211> LENGTH: 20
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```
211 <212> TYPE: DNA
212 <213> ORGANISM: Leishmania donovani
214 <400> SEQUENCE: 19
215 ggggtactac agcgccctga                                          20
218 <210> SEQ ID NO: 20
219 <211> LENGTH: 20
220 <212> TYPE: DNA
221 <213> ORGANISM: Leishmania donovani
223 <400> SEQUENCE: 20
224 gtcctggaag atggccatgg                                          20
227 <210> SEQ ID NO: 21
228 <211> LENGTH: 18
229 <212> TYPE: DNA
230 <213> ORGANISM: Leishmania donovani
232 <400> SEQUENCE: 21
233 ggggtactac agcgccct                                            18
236 <210> SEQ ID NO: 22
237 <211> LENGTH: 29
238 <212> TYPE: DNA
239 <213> ORGANISM: Leishmania donovani
241 <400> SEQUENCE: 22
242 atggccatcg tcctggaaga tggccatgg                                29
245 <210> SEQ ID NO: 23
246 <211> LENGTH: 29
247 <212> TYPE: DNA
248 <213> ORGANISM: Leishmania donovani
250 <400> SEQUENCE: 23
251 atggccatcg tcctggaaga tggccatgg                                29
254 <210> SEQ ID NO: 24
255 <211> LENGTH: 19
256 <212> TYPE: DNA
257 <213> ORGANISM: Leishmania donovani
259 <400> SEQUENCE: 24
260 gctcatggcg cctgcctcg                                           19
263 <210> SEQ ID NO: 25
264 <211> LENGTH: 20
265 <212> TYPE: DNA
266 <213> ORGANISM: Leishmania donovani
268 <400> SEQUENCE: 25
269 gtcctggaag atggccatgg                                          20
272 <210> SEQ ID NO: 26
273 <211> LENGTH: 20
274 <212> TYPE: DNA
275 <213> ORGANISM: Leishmania donovani
277 <400> SEQUENCE: 26
278 gtcctggaag atggccatgg                                          20
281 <210> SEQ ID NO: 27
282 <211> LENGTH: 20
283 <212> TYPE: DNA
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Input Set : F:\10516361 Supplemental CRF.txt
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```
284 <213> ORGANISM: Escherichia coli
286 <400> SEQUENCE: 27
287 tgaattcaat ctcgcaaacg                                        20
290 <210> SEQ ID NO: 28
291 <211> LENGTH: 26
292 <212> TYPE: DNA
293 <213> ORGANISM: Escherichia coli
295 <400> SEQUENCE: 28
296 atcggatccc aaatgcctga ggccag                                 26
299 <210> SEQ ID NO: 29
300 <211> LENGTH: 20
301 <212> TYPE: DNA
302 <213> ORGANISM: Escherichia coli
304 <400> SEQUENCE: 29
305 ggcaatgaaa agccacttct                                        20
308 <210> SEQ ID NO: 30
309 <211> LENGTH: 20
310 <212> TYPE: DNA
311 <213> ORGANISM: Escherichia coli
313 <400> SEQUENCE: 30
314 ttaaccggcg attgagtacc                                        20
317 <210> SEQ ID NO: 31
318 <211> LENGTH: 20
319 <212> TYPE: DNA
320 <213> ORGANISM: Escherichia coli
322 <400> SEQUENCE: 31
323 agccttatga cgtgcagctt                                        20
```

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<u>**Invalid <213> Response:**</u>
**Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.**

Seq#:1,2,3,4,5

VERIFICATION SUMMARY   DATE: 11/27/2006
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